

ABSTRACT OF THE DISCLOSURE

The present invention describes the incorporation of liposomal gene constructs directly into a wound to further improve wound repair, or into wound coverage and/or closure materials to enhance the functionality of the material. The present invention further describes the use of human fetal membranes (*e.g.*, amnion) enhanced with the liposomal gene therapy as a wound coverage material in full-thickness wound repair. The enhanced fetal membranes or enhanced cadaver skin have advantages over currently used materials lacking the liposomal gene construct and are an efficient and safe approach to improve clinical outcome in patients with burn injuries.